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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,601	04/27/2006	Shigeru Kawano	5404-147	9791	
757 7590 07/09/2009 BRINKS HOFER GILSON & LIONE			EXAMINER		
P.O. BOX 10395 CHICAGO, IL 60610			FRONDA, CHRISTIAN L		
			ART UNIT	PAPER NUMBER	
			1652	•	
			MAIL DATE	DELIVERY MODE	
			07/09/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/577,601 KAWANO ET AL.

Office Action Summary	Examiner	Art Unit						
	CHRISTIAN L. FRONDA	1652						
The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence ac	dress					
Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 37 CFR 1.15 after 50K (5) MONTHS from the making date of this communication. Failure to only within the act or utended period for mply will. by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.70(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).	,					
Status								
Responsive to communication(s) filed on								
	action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under E								
Diamonisian of Claima	•							
Disposition of Claims								
4) Claim(s) 1-19 and 36-52 is/are pending in the a	**							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6) Claim(s) is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) <u>1-19 and 36-52</u> are subject to restriction	on and/or election requirement.							
Application Papers								
9) The specification is objected to by the Examine	r.							
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the l	Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correcti	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P	ΓΟ-152.					
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:								
 Certified copies of the priority documents have been received. 								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau	ı (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list	of the certified copies not receive	ed.						
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO.413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate						
3) Information Disclosure Statement(s) (PTO/SE/05)	5) Notice of Informal F 6) Other:	atent Application						
Paper No(s)/Mail Date	o) Li Oulei							

Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patient Drawing Review (PTO-948) Information-Diedcoure-Statemsnit(e) (PTOISEACE) Paper Nots)Mail Date	4) Interview Summary (PTO-413) Paper Nots/Mail Date. 5) Nelice of Informal Patent Application. 6) Other:	
S. Ratest and Trademark Office		_

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Invention 1 Claims 1-6, drawn to an acetoacetyl-CoA reductase.

Invention 2 Claims 7-19, drawn to a nucleotide sequence, recombinant vector, and transformant.

Invention 3 Claims 36-43, drawn to processes for producing a (R)-3-hydroxypentanenitrile of formula (2), a (R)-3-hydroxybutanoic ester of formula (4), and an optically active 1-phenylethanol derivative of formula (6).

Invention 4 Claims 44-47, drawn to a recombinant vector and transformant.

Invention 5 Claims 48-52, drawn to processes for producing a (R)-3-hydroxypentanenitrile of formula (2), a (R)-3-hydroxybutanoic ester of formula (4), and an optically active 1-phenylethanol derivative of formula (6).

The inventions listed as Inventions 1-5 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

A same or corresponding technical feature shared among Inventions 1-5 is an acetoacetyl-CoA reductase with an amino acid sequence having addition, deletion, or substitution of one or more amino acid residues in the amino acid sequence of SEQ ID NO: 1.

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However, the reference of Accession Q7VYZ9 (01-OCT-2003; PTO 892) teaches such acetoacetyl-CoA reductase.

Thus, the same or corresponding technical feature is not special since it was known in the prior art and therefore cannot make a contribution over the prior art. Since the inventions lack the same or corresponding special technical feature, then the inventions listed as Inventions 1-5 are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of invention and/or species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention and/or species.

The election of an invention and/or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully Application/Control Number: 10/577,601

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examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian L Fronda whose telephone number is (571)272-0929. The examiner can normally be reached Monday-Thursday and alternate Fridays between 9:00AM - 5:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (571)272-0811. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christian L. Fronda/

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Primary Examiner

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